

1.- 62. Canceled.

63. (Currently Amended) A method of calculating a patient's relative risk (RR) for cardiovascular disease (CVD) ~~by said~~ method comprising:

binding a probe to a polymorphic site of a gene of interest of the patient and  
genotyping a single nucleotide polymorphism (SNP) in  
baySNP 8242, baySNP 900066 and baySNP 900073 DNA of the  
patient, wherein for three possible genotypes of each SNP, the relative risk associate with each genotype is calculated as follows:

$$RR\ 1 = \frac{N\ 11}{N\ 21} \Bigg/ \frac{N\ 12 + N\ 13}{N\ 22 + N\ 23}$$

$$RR\ 2 = \frac{N\ 12}{N\ 22} \Bigg/ \frac{N\ 11 + N\ 13}{N\ 21 + N\ 23}$$

$$RR\ 3 = \frac{N\ 13}{N\ 23} \Bigg/ \frac{N\ 11 + N\ 12}{N\ 21 + N\ 22}$$

wherein:

RR1 represents the relative risk for genotype 1;

RR2 represents the relative risk for genotype 2;

RR3 represents the relative risk for genotype 3;

N11 represents genotype 1, N12 represents genotype 2, and N13 represents genotype 3 for a population of patients that are being tested for CVD;

N21 represents genotype 1, N22 represents genotype 2, and N23 represents genotype 3 for a population of patients that are known not to be at risk for CVD;

a value of RR1 > 1 indicates an increased risk for CVD for individuals carrying genotype 1;

a value of RR2 > 1 indicates an increased risk for CVD for individuals carrying genotype 2; and

a value of RR3 > 1 indicates an increased risk for CVD for individuals carrying genotype 3.

64. Canceled

65. (Previously Presented) The method of claim 63 ~~64~~, wherein the SNP is baySNP 900066 and is a C to T SNP.

66. (Previously Presented) The method of claim 65, wherein genotype 1, genotype 2, and genotype 3 are CC, TT, and CT.

67. (Currently Amended) The method of claim 63 ~~64~~, wherein the SNP is baySNP 8282 and is an A to G SNP.

68. (Previously Presented) The method of claim 67, wherein genotype 1, genotype 2, and genotype 3 are AA, AG, and GG.

69. (Currently Amended) The method of claim 63 ~~64~~, wherein the SNP is baySNP 900073 and is a C to G SNP.

70. (Previously Presented) The method of claim 69, wherein genotype 1, genotype 2, and genotype 3 are CC, CG, and GG.

71. -92. Canceled